

CLAIMS

1. A method of configuring an intelligent network service over a user interface of a mobile station by means of a management application located at an intelligent network node (SCP) when the mobile station is connected to a mobile communication system which is, in turn, connected to an intelligent network, the mobile station (MS) comprising an extension layer (MEXE) to support installable routines; **characterized** in that:

10 a configuration routine of the intelligent network service in question is loaded in the mobile station;

15 the extension layer (MEXE) and/or the configuration routine connected to it receive an input (4-3a) to configure the intelligent network service, generate configuration information on the basis of the input and transmit the information in a configuration message (3, 4-3d) through a network element (MSC, SGSN, GGSN) of the mobile communication system to said intelligent network node (SCP);

20 the intelligent network node (SCP) interprets the configuration information included in the configuration message (3, 4-3d) and configures the intelligent network service.

25 2. A method as claimed in claim 1, **characterized** in that before the configuration message (3, 4-3d) the mobile station transmits a configuration information inquiry (1, 4-1d).

30 3. A method as claimed in claim 2, **characterized** in that the configuration routine is entirely installed in the mobile station before the configuration information inquiry (1, 4-1d).

35 4. A method as claimed in claim 2, **characterized** in that the configuration routine is installed only partly, or not at all, in the mobile station before the configuration information inquiry (1, 4-1d) and the network (MSC, SCP) transmits the configuration routine or at least the missing parts of the configuration routine as a response to the configuration information inquiry.

40 5. A method as claimed in claim 4, **characterized** in that the network (MSC, SCP) transmits the configuration routine or the missing parts thereof only if requested by the mobile station.

45 6. A method as claimed in ^{claim 1} ~~any one of the preceding claims~~, **characterized** in that the network element (MSC, SGSN, GGSN) of the mobile communication system recognizes the configuration message (3, 4-3d)

and transmits at least the essential part thereof to the said intelligent network node (SCP).

7. A method as claimed in ~~any one of the preceding claims~~, ^{claim 1} characterized in that the messages between the mobile station (MS) and the network element of the mobile communication system (MSC) are transparent for the portion of the network between the mobile station and the element of said mobile communication system and the network element of the mobile communication system recognizes upward and downward messages and forwards the essential parts of the messages correspondingly to the intelligent network node (SCP) or the mobile station (MS).

8. A method as claimed in claim 7, characterized in that the network element (MSC) of the mobile communication system recognizes that the message is a configuration message on the basis of the fact that the message contains an intelligent network service identifier (21) and preferably a special character (22) that seldom occurs in a normal text.

9. A method as claimed in claim 7, characterized in that the network element (MSC) of the mobile communication system recognizes that the message is a configuration message on the basis of the fact that the mobile station transmits the message to a telephone number allocated to the intelligent network service.

10. A method as claimed in ~~any one of the preceding claims~~, ^{claim 1} characterized in that in connection with changes in the intelligent network service the intelligent network node (SCP) automatically transmits a notification to the mobile station (MS).

11. A method as claimed in ~~any one of the preceding claims~~, ^{claim 1} characterized in that in connection with the changes in the intelligent network service the intelligent network node (SCP) automatically activates the loading of a new configuration routine for the mobile station (MS).

12. A method as claimed in ~~any one of the preceding claims~~, ^{claim 1} characterized in that the messages between the mobile station (MS) and the network element (MSC) of the mobile communication system are data messages, such as short messages or USSD messages.

13. A mobile station (MS) comprising an extension layer (MEXE) to support routines to be installed; characterized in that:

the mobile station comprises a configuration routine of an intelligent network service, the routine being arranged to provide the extension layer (MEXE) with an input (4-3a) to configure the intelligent network service;

5 as a response to the input, the mobile station is arranged to transmit configuration information (3, 4-3d) to a mobile telephone network (NNS, BSS).

10 14. An arrangement for configuring over a user interface of a mobile station (MS) an intelligent network service controlled by an intelligent network node (SCP) when the mobile station (MS) comprises an extension layer (MEXE) to support installable routines; **characterized** in that:

15 the mobile station comprises a configuration routine of the intelligent network service, the routine being arranged to provide the extension layer (MEXE) with an input (4-3a) to configure the intelligent network service;

20 as a response to the input, the mobile station (MS) is arranged to transmit configuration information (3, 4-3d) through a network element (MSC, SGSN, GGSN) of the mobile communication system to the intelligent network node (SCP); and

25 the intelligent network node (SCP) is arranged to interpret the configuration information included in the configuration message (3, 4-3d) and configure the intelligent network service on the basis of the configuration information.